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## NIKE-HERCULES HIGH ALTITUDE SURFACE-TO-AIR MISSILE UNITED STATES

## GUIDELINE HIGH ALTITUDE SURFACE-TO-AIR MISSILE USSR

1.	WEAPON CATEGORY:
	US ARMY SURFACE-TO-AIR MISSILE.
2.	PRODUCTION:

SURFACE-TO-AIR --SA-2.

SARATOV PLANT 292. THIS PLANT HAS BEEN 2
IDENTIFIED AS THE PRODUCTION FACILITY
FOR THE SA-2 GUIDELINE MISSILE BASED
ON THE IDENTIFICATION OF SA-2 MISSILE
CANISTERS ON TALENT PHOTOGRAPHY.

3.	RESEARCH	&	DEVELOPMENT

THERE IS EVIDENCE THAT THE SA-1 (GUILD)

AND SA-2 MISSILES WERE DEVELOPED BY THE

DESIGN BUREAU OF S.A. LOVECKKIN AT AIR
CRAFT PLANT 301, MOSCOW/E CERT. THE

SIMILARITY OF DESIGN BETWEEN THE SA-1,

SA-2, SA-3, AND GRIFFON MUSSILES IN
DICATE THAT THIS DESIGN BUREAU IS PRO
BABLY RESPONSIBLE FOR THESE AND POS
SIBLY OTHER AIR DEFENSE MISSILE SYSTEM:

FLIGHT TESTING AND PROGRAME EVALUATION

IS CARRIED OUT AT THE SAME AND LA INCH

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THE COUNTRY. IT CONSTITUTES THE MAJOR

AIR DEFENSE MISSILE SYSTEM OF THE EAST

EUROPEAN SATELLITES AND OF COMMUNIST

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CHINA, NORTH KOREA, NORTH VIETNAM, INDIA, CUBA, EGYPT, YUGOSLAVIA, AND INDONESIA.

## 6. MISSILE DESCRIPTION:

THE GUIDELINE IS A TWO-STAGE COMMANDGUIDED MISSILE. IT UTILIZES A SOLID
PROPULSION BOOSTER STAGE AND A LIQUID
PROPULSION SUSTAINER STAGE. THERE ARE
AT LEAST THREE MODELS OF THE GUIDELINE
(DESIGNATED MARK I, II, AND III). THEY
HAVE MINOR EXTERNAL VARIATIONS. TECHNOLOGICAL IMPROVEMENTS AND CHANGES IN
THE FORWARD CANARDS AND REAR FINS APPEAR TO HAVE BEEN INCORPORATED IN EACH
SUCESSIVE MODEL IN ORDER TO IMPROVE
THE AERODYNAMIC CAPABILITIES OF THE

.. MISSILE.

SU	STAINER	BOOSTIR
LENGTH		2
DIAMETER		
RANGE	17 NAUTICAL	MILES
ALTITUDE,	85,000 FT (A	APPROXIMATELY)
VELOCITY		<u>:</u>
WARHEAD	HE 418 LB	<del></del>

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## 7. SITE D. GCRIPTION:

THE SA-2 SITES AS DEPLOYED ARE FAIRLY
STANDARD IN APPEARANCE, A STOUGH
MINOR VARIATIONS HAVE BEEN OBSERTED.

EACH SITE CONSISTS OF SIX LAUNCH POSITIONS WHICH SURROUND A SENTRAL CONTROL COMPLEX THAT CONTAINS THE FAN SONG TRACKING AND GUIDANCE RADAR AND THE OPERATION AND POWER VEHICLES.

ALSO LOCATED AT THE SITE ORE THE SPOONERST A ACQUISITION RADAF OND THE SCORE BOARD IFF IDENTIFICATION AUGUSTMENT.

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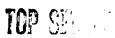
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•	
G. ORGANI ATION:	
•	THE SA-2 SYSTEM IS ORGANIZED AND DE-
	PLOYED IN BATTALION SIZE UNITS, ONE
	BATTALION PER SITE IN CONTRAST TO ONE
	BATTERY HER NIKE SITE. WITHIN THIS
	STRUCTURE ARE A HEADQUARTERS, A FIRING
	BATTERY, AND A RADAR AND TECHNICAL COM-
	PANY WITH A TOTAL PERSONEL COMPLEMENT
	OF APPROXIMATELY 130.
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					•	
ELECTROI	ICS:					
			FAN SONG RADA	AR-TARGET	TRACKING AND	
			MISSILE GUIDA	ANCE.		
		,	SPOON REST A	- ACQUISI	TIOI.	
					÷	
OPERATIO	<u>N</u> :					
			THE OPERATION	N OF THE S	SOVTET SA-2	
			SYSTEM IS BAS	SICALLY SI	MILAR TO THAT	
			OF THE		]	
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			at ,			
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!					J
11. <u>CA</u>	PABILITY:		<u>_</u>		T CERTACUL ON THE TAIR
			.,,	A) FAN SONG RADAR CAI	
				GET BUT IT CAN DELIVER	
				AT THIS TARGET TO GIVE	A GREATIR KILL
*.				ASSURANCE,  B) FAN SONG RADAR OF	THE CONTINUE OVER US!
÷				PERFORMS THE SAME FUNC	
				GET-TRACKING RADAR, TH	
				RADAR, AND THE MISSILE	
ŗŁ.	T so notes have	been prepared for briefing pur	poses only and	should not be used for detailed as	: ra work,
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Г		
		OF THE SYSTEM. 25
		C) THE FAN SONG RADAR IS SMALLER
		THAN ITS COUNTERPART IN THE 25.
		SYSTEM.
	•	D) CANNOT BE USED IN A SURFACE-TO-
		SURFACE ROLE.

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